

29. (Reiterated) A recombinant nucleic acid encoding an NTR protein comprising a nucleic acid that hybridizes under high stringency conditions to a sequence complementary to that set forth in Figure 5A (SEQ ID NO:10).
30. (Reiterated) The recombinant nucleic acid of claim 29 comprising a nucleic acid sequence as set forth in Figure 5A (SEQ ID NO:10).
31. (Reiterated) A recombinant nucleic acid encoding an NTR protein comprising a nucleic acid having at least 75% sequence identity to a sequence as set forth in Figure 5A (SEQ ID NO:10).
32. (Reiterated) A recombinant nucleic acid encoding an amino acid sequence as shown in Figure 4 (SEQ ID NO:9).
33. (Amended) A host cell comprising the recombinant nucleic acid of claim 29.
34. (Amended) An expression vector comprising the recombinant nucleic acid of claim 29 operably linked to a transcriptional regulatory sequence.
35. (Amended) A host cell comprising an expression vector comprising the recombinant nucleic acid of claim 29 operably linked to a transcriptional regulatory sequence active in said host cell.
36. (Amended) A transgenic plant comprising the recombinant nucleic acid of claim 29.

37. (Amended) A transgenic plant comprising a host cell comprising an expression vector comprising the recombinant nucleic acid of claim 29, operably linked to a transcriptional regulatory sequence active in said cell.

38. (Amended) A transgenic plant comprising a host cell comprising an expression vector comprising the recombinant nucleic acid of claim 29 operably linked to a transcriptional regulatory sequence active in said cell.

39. (Reiterated) The transgenic plant of claim 38 wherein said host cell is a seed cell.

40. (Amended) A transgenic seed comprising the recombinant nucleic acid of claim 29 operably linked to transcriptional regulatory sequences active in said seed.

41. (Reiterated) A method of expressing an NTR protein comprising culturing a host cell comprising the recombinant nucleic acid of claim 29 under conditions suitable for expression of said NTR protein.

42. (Reiterated) A method of expressing an NTR protein comprising culturing a host cell comprising an expression vector comprising the recombinant nucleic acid of claim 29 operably linked to regulatory sequences active in said host cell under conditions suitable for expression of said NTR protein.

43. (Reiterated) A method of expressing an NTR protein comprising culturing a transgenic plant comprising the recombinant nucleic acid of claim 29 under conditions suitable for expression of said NTR protein.

44. (Reiterated) A method of expressing an NTR protein comprising culturing a transgenic plant comprising an expression vector comprising the recombinant nucleic acid of claim 29 operably linked to regulatory sequences active in said transgenic plant under conditions suitable for expression of said NTR protein.

45. (Reiterated) A method of expressing an NTR protein comprising culturing the transgenic seed of claim 40.

46. (Amended) The method of claim 41 further comprising recovering said protein.

47. (Reiterated) A recombinant NTR polypeptide encoded by the recombinant nucleic acid of claim 29.

48. (Reiterated) A recombinant NTR polypeptide comprising an amino acid sequence having at least 80% sequence identity with the sequence set forth in Figure 4 (SEQ ID NO:9).

49. (Reiterated) The recombinant NTR polypeptide of claim 48 wherein said sequence is set forth in Figure 4 (SEQ ID NO:9).

Please CANCEL 50 to 64.

65. (Reiterated) A isolated nucleic acid encoding an NTR protein comprising a nucleic acid that hybridizes under high stringency conditions to a sequence complementary to that set forth in Figure 5A (SEQ ID NO:10).
66. (Reiterated) The isolated nucleic acid of claim 65 comprising a nucleic acid sequence as set forth in Figure 5A (SEQ ID NO:10).
67. (Reiterated) An isolated nucleic acid encoding an NTR protein comprising a nucleic acid having at least 75% sequence identity to a sequence as set forth in Figure 5A (SEQ ID NO:10).
68. (Reiterated) An isolated nucleic acid encoding an amino acid sequence as shown in Figure 4 (SEQ ID NO:9).
69. (Amended) A transgenic plant comprising the isolated nucleic acid of claim 65.
70. (Amended) A transgenic seed comprising the recombinant nucleic acid of claim 65, operably linked to transcriptional regulatory sequences active in said seed.

Please CANCEL claims 71 and 72.

Please ADD the following NEW claims.

73. (New) An expression vector comprising the recombinant nucleic of claim 30 operably linked to a transcriptional regulatory sequence.
74. (New) An expression vector comprising the recombinant nucleic of claim 31 operably linked to a transcriptional regulatory sequence.
75. (New) An expression vector comprising the recombinant nucleic of claim 32 operably linked to a transcriptional regulatory sequence.
76. (New) A host cell comprising an expression vector comprising the recombinant nucleic acid of claim 30 operably linked to a transcriptional regulatory sequence active in said host cell.
77. (New) A host cell comprising an expression vector comprising the recombinant nucleic acid of claim 31 operably linked to a transcriptional regulatory sequence active in said host cell.
78. (New) A host cell comprising an expression vector comprising the recombinant nucleic acid of claim 32 operably linked to a transcriptional regulatory sequence active in said host cell.
79. (New) A transgenic plant comprising the recombinant nucleic acid of claim 30.
80. (New) A transgenic plant comprising the recombinant nucleic acid of claim 31.
81. (New) A transgenic plant comprising the recombinant nucleic acid of claim 32.

82. (New) A transgenic plant comprising an expression vector comprising the recombinant nucleic acid of claim 30 operably linked to a transcriptional regulatory sequence active in said cell.
83. (New) A transgenic plant comprising an expression vector comprising the recombinant nucleic acid of claim 31 operably linked to a transcriptional regulatory sequence active in said cell.
84. (New) A transgenic plant comprising an expression vector comprising the recombinant nucleic acid of claim 32 operably linked to a transcriptional regulatory sequence active in said cell.
85. (New) A transgenic plant comprising a host cell comprising an expression vector comprising the recombinant nucleic acid of claim 30 operably linked to a transcriptional regulatory sequence active in said cell.
86. (New) A transgenic plant comprising a host cell comprising an expression vector comprising the recombinant nucleic acid of claim 31 operably linked to a transcriptional regulatory sequence active in said cell.
87. (New) A transgenic plant comprising a host cell comprising an expression vector comprising the recombinant nucleic acid of claim 32 operably linked to a transcriptional regulatory sequence active in said cell.
88. (New) A transgenic seed comprising the recombinant nucleic acid of claim 30 operably linked to transcriptional regulatory sequences active in said seed.

89. (New) A transgenic seed comprising the recombinant nucleic acid of claim 31 operably linked to transcriptional regulatory sequences active in said seed.
90. (New) A transgenic seed comprising the recombinant nucleic acid of claim 32 operably linked to transcriptional regulatory sequences active in said seed.
91. (New) The method of claim 42 further comprising recovering said protein.
92. (New) The method of claim 43 further comprising recovering said protein.
93. (New) The method of claim 44 further comprising recovering said protein.
94. (New) The method of claim 45 further comprising recovering said protein.

REMARKS

Reconsideration is respectfully requested. Claims 1-28, 50-64, and 71-72 have been canceled. Claims 33-38, 40, 46, 69 and 70, have been amended. New claims 73-94 have been added to replace the multiple dependent claims. The specification has been amended to recite the specific SEQ ID NO.'s. Concurrent with this preliminary amendment, Applicants request that the Examiner transfer the Sequence Listing from 09/540,014 to this application. The claim amendments are supported throughout the application as filed. No new matter has been added. Claims 29 - 49, 65 to 70 and 73 - 94, will be pending in this divisional application.

Early and favorable action is requested.